# Form-Based Codes: Implementing Smart Growth





n the two years since the Local Government Commission's Smart Growth Zoning Codes: A Resource Guide was first published, the movement to reform zoning codes has gained momentum. Today, form-based codes have become an increasingly popular approach to achieve these reforms and create communities where people want to live, work and play.

The old adage "form follows function" describes the common approach behind land use regulation as it has been practiced in the past. Form-based codes turn that relationship on its head. Since the primary basis for regulation is the buildings, not the uses, "function follows form." These codes concentrate first on the visual aspect of development: building height and bulk, façade treatments, the location of parking, and the relationship of the buildings to the street and to one another. Simply put, form-based codes emphasize the appearance and qualities of the public realm, the places created by buildings.

As with other smart growth concepts, form-based codes have been applied in new growth areas, in existing neighborhoods, in limited situations to special districts, and in wholesale code revisions for entire communities.

▲ Making zoning codes work for the community: Pocket parks and front porches help create livable places.

What are form-based codes

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Modified from definition by Paul Chauded Att 1



# Why are form-based codes effective?

he focus on building and street design in form-based codes allows graphics and photos — instead of lengthy, repetitive text — to explain the details of zoning requirements. In turn, these codes are much more democratic instruments, because they are more readily understood by residents who are not otherwise involved in land use or development professions.

#### ■ Pictures tell the story

Form-based codes can greatly reduce discussions about the meaning of zoning terms and arguments over the interpretation of code language, allowing everybody involved in a public participation process to focus their time and energy on the essence of the regulations, rather than on "word-smithing." Using form-based codes, a picture really can be worth a thousand words.

#### ■ Easy-to-find information

Another improvement offered by form-based codes is that they contain all relevant information

conventional codes usually include this information in several different sections of the code, sometimes even in side documents that may not be readily apparent or available to the inexperienced user.

By consolidating information and using a simple pictorial style that avoids jargon and complex, repetitive language, form-based codes offer a much more accessible format.

#### ■ Great for mixing uses

Another key characteristic of form-based codes is the way they treat different use types. Since the dawn of zoning, conventional codes were built around the concept of separating uses. They seldom allow uses from a different category (retail, single-family, multi-family, office, etc.) within the same zoning district.

When uses from different categories are proposed by project developers, extra processes and additional hearings are often required. In contrast, form-based codes assume a mix of uses, especially in

#### ■ Better, faster, cheaper process

This clarity of format and intent can lead to a shift in approval processing from a hearing-heavy process to one that is largely administrative. Simply put, if all the details are discussed and clarified when the code is developed, and if they are accurately represented in a format that leaves no doubt as to the requirements, then a "build-by-right" approach is possible.

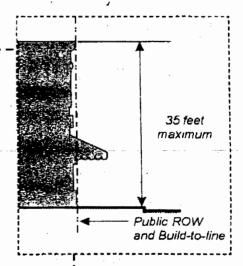
This means the review of a project application follows procedures similar to those for obtaining building permits. If the proposed project meets all of the code's requirements, the application can be approved administratively.

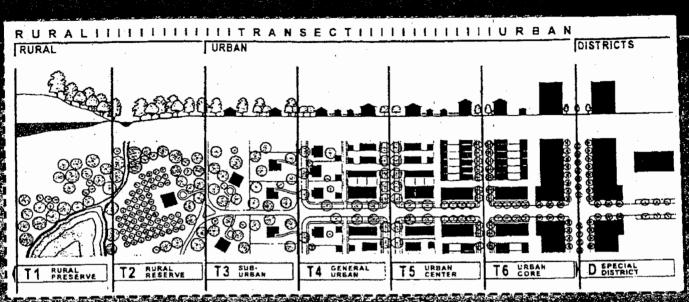
Obviously, this reduces time, expense and uncertainty for the developer, but it also reduces processing and hearing costs for the jurisdiction involved. This can free up staff time for more proactive planning.

▼ Form-based codes use pictures

# New state law authorizes use of form-based codes

ike many unconventional ideas, form-based codes were met with considerable skepticism in many communities, and at times it was argued that they were not even a legal means of regulating land use. To clarify that issue, the California legislature weighed in by adopting legislation specifically authorizing form-based codes. Assembly Bill 1268 was signed into law in July 2004, resulting in very clear language in the state's General Plan Guidelines and the statutes governing zoning that allow form-based codes.





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development progresses from th rural to the more highly urbaited Likewise, there is less area devoted to greenery in the urban core than in the rural districts. Building heights, however, increase.

This unified development ordinance, or "SmartCode," links all

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this classification methodology into real-world application it is form-based code projects acros the country

# Steps for preparing a form-based code

ow does a community go about preparing a form-based code? What are the steps that need to be taken to prepare a form-based code?

According to planner Paul Crawford, one of the nation's experts on form-based codes, the typical steps are required to prepare this type of code include:

# 1 Existing conditions analysis and inventory

Before embarking on development of the code it is critical to understand clearly what the existing patterns of development are in a community. This record of existing conditions — especially of areas that the community identifies as special, or significant — can help develop a code that fits local characteristics.

Using diagrams and notes, a typical analysis will look at:

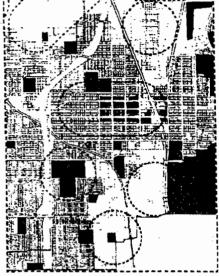
- Street types (by setback, walkway, roadway, and landscape)
- ➤ Block types (shape, size, alleys, parcelization)

- Building types (footprint, profile, streetfront, access by car or pedestrian, service areas)
- Open space types (front, back and side yards, squares and parks, undeveloped parcels with urban zoning)
- Parking types and location (parallel, diagonal, lots)
- > Natural features (creeks, significant trees, views, hills, etc.)

# 2 Public visioning and charrette

Input from the community is gathered early in the process through a public visioning and charrette process.

The charrette is a collaborative planning process that brings together residents and design professionals in an intensive multiday process that typically includes focus group meetings, workshops, presentations, and public engagement exercises to develop a feasible plan for future revitalization and development.



▲ Step 3: Azusa's code divides the city into open space, residential areas, commercial corridors and commercial districts.

# 3 Determine appropriate spatial basis for regulation (districts, transect, streets or special zones)

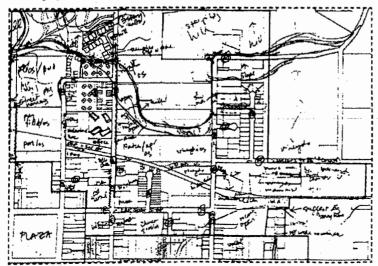
There are a number of different approaches that can be taken in determining how the form-based code will be defined and regulated.

between these approaches, Crawford describes four basic alternatives that are typically used by different practitioners:

- Neighborhoods, districts, corridors
- Transect
- > Street-based regulating plan
- > Special purpose zones

This process entails identifying which parts of the community are appropriate for different types of development. For example, if the transect-based approach is used the plan would identify those areas that are suburban (T3), general

▼ Step 1: Existing conditions' inventory from the City of Sonoma's development code update



### Form-based codes: Good vintage for wine country

#### ■ Sonoma, California

ne of California's oldest cities and located in the scenic wine country the city of Sonoma had seen post-war suburbia grow into older neighborhoods built around its old pueblo that dates back to Spanish colonial times. This jumble of neighborhoods and building types represented a significant challenge to those developing a new code.

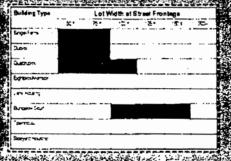
Adopted in 2001, the new form-based code covers the entire city. To break the daunting task of a wholesale code revision into more readily understood pieces, the city was divided into 13 planning areas in four categories - residential, commercial district, commercial corridor and open space. Within each area, the existing situation was inventoried and compared to the desired future state. This allows the code to recognize existing development while imposing a new regulatory framework on future development. Areas of special concern such as rural roads, the urban edge and creeks are highlighted, and subject to specified guidelines.

Code prepared by Crawford, Multari and Clark Associates

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The next step is to define and code the urban standards for the different parts of the community mapped in Step 3. The results will be a set of diagrams for each zone, with



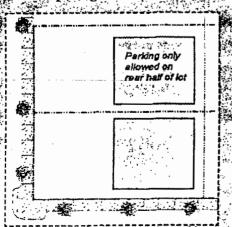
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The code then lay, our which types of buildings a appropriate in the diffe

some of the following key ingredi

Step 4: Form-based codes show where parking must be located



adewalk width building placements building height and profile, and if relevant, location of on-site parkings

Develop architectural standards (building or frontage typologies, etc.)

The inventory conducted in Step I and the public visioning and a charrette process in Step 2, help to identify the different types of buildings and how they front the street to define the public realing

The form-based code builds on this information to define what. types of buildings fit into different parts of the community. The

Allocate and allitate at standards a language

The final scene is the street prepare the standards in a former that is graphic well-illustrated was gon-free, and easy to under This format should willide 21 information and regulation relevan to a particular district (street ty neighborhood en l'income conc piece. This avoids the confusion that cross-referencing scattered requirements, and obscure term can introduce.



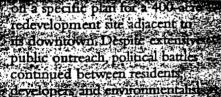
# Zoning for consensus and revitalization

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olegii April 2003, The Visi underscores the broad appeal o form-based codes







The proposed zoning code was full of legalese and numbers and



Stilling & Avioline co. pedestrian oriented Residents bave the reassured by the clar and relative simplica developers appreciate clear rules and expedited permitting process

After only nine months of community visioning and consensus- The Central Petaluma Specific building, former adversaries agreed on the new form-based code breaking a long-time logjam.



Plan, adopted in June 2003, has jump-started the constitution a new, mixed-use theater distric

# Code for a new town center

#### ■ Hercules, California

he "Regulating Code," adopted for the small city of Hercules across the bay from San Francisco in the summer of 2001, is similar to another prepared by the same firm for the City of Winter Springs, in Florida.

Intended to foster smart growth development in newly created town centers, both codes have been extremely successful, immediately triggering development projects conforming to the principles and details embodied in the code.

The Hercules code covers four districts in the central part of town. It includes eight street types, though not all will appear in each zone. The use table is a mercifully short three pages, with a half-page of footnotes. Four times that number of pages are devoted to taçade details and architectural standards.





Attractive new homes in Hercules look out onto the San Francisco Bay.

This architectural material features photographs and drawings of desired and unwelcome features, signs, porches, trim and so on. These details precede the use tables in the code, consistent with form-based codes' emphasis on building form and the public realm.

One page is devoted to each street type, detailing streetscape features such as pavement wider, curbs, onstreet parking, landscaping, corner radii, sidewalks, building setbacks, eaves, awnings and balconies.

This format allows the user to quickly access all the most relevant requirements and standards for a piece of property, just by referencing the street type that fronts the property.

Hercules' new Regulating Code has clearly been a success. Since its adoption, development has flourished in the area it covers. Several traditional-appearing

residential projects have been built, with a total of 300 units, and construction is under way on the first phase of the main street area of the Waterfront District.

That main street building includes fifteen 2,700-square-foot ownership units with commercial space on the ground floor and two-story townhouse units above. The single-family projects include a number

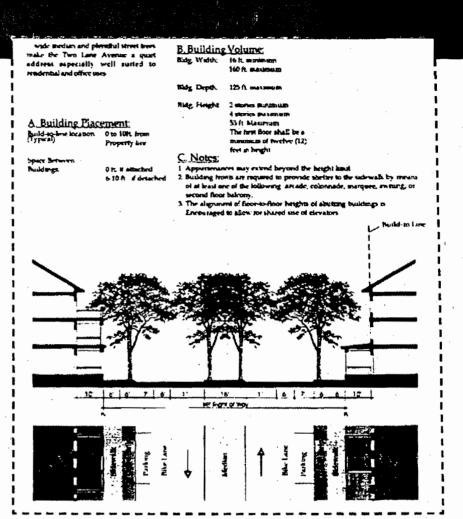
triplex, and fourplex units that blend in very well with the surrounding housing. Building styles are varied.

The structures, landscaping, street design, and even the street lamps have design details specified in the code. This thorough approach to the details can make all the difference in the finished appearance and appeal of a project.

Code prepared by Dover, Kohl & Partners







### Other Points to Consider

arge-scale revisions of zoning codes always have the potential for unanticipated problems, whether a form-based approach, or a more conventionally trustured code built around smart prowth

principles, is used. The need to monitor and revise these new codes after they are adopted must not be overlooked with any format. With formbased codes, these problems will likely surface when the underlying basis for regulation is changed from a focus on uses within and around buildings to a focus on the structures first.

Form-based codes require re-educating everyone in the community — elected and appointed officials, planners, engineers, developers and residents. This begins with a broad public participation effort as the code is developed, of course, but it must also continue after the code is adopted. Code modifications should be expected over time, and must be explained to everyone involved. Some cities have hired an architect or urban designer to work with builders and developers to help implement the code's objectives.

This education - particularly of staff - will help reassure developers and the public that application approvals will meet the code's intent. If code reform streamlines the process in a way that eliminates hearing checkpoints, people must be confident that staff are trained to properly assess whether proposed projects comply with detail requirements in the code.